# Bahria University,

## Karachi Campus



LAB EXPERIMENT NO.

**\_03\_**

LIST OF TASKS

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| --- | --- |
| **TASK NO** | **OBJECTIVE** |
| 01 | Implement BFS & DFS Algorithm in python on the given graph: |
| 02 | Implement the BFS and DFS Algorithm using recursion on the given graph with starting node = 1 and goal =6 |
| 03 | Apply the UCS algorithm on a map given below. Find optimal cost from ARAD to BUCHAREST |
| 04 | Implement the Travelling Salesmen problem using uninformed searches on given Directed graph |
|  |  |

Submitted On:

Date: 27/02/2024

**Task No 01:** Implement BFS & DFS Algorithm in python on the given graph:

**Solution:**

**Output:**

**Task No 02:** Implement the BFS and DFS Algorithm using recursion on the given graph with starting node = 1 and goal =6

**Solution:**

**Output:**

**Task No 03:** Apply the UCS algorithm on a map given below. Find optimal cost from ARAD to BUCHAREST

**Solution:**

**Output:**

**Task No 04:** Implement the Travelling Salesmen problem using uninformed searches on given Directed graph

**Solution:**

**Output:**